

BVM-D Series
Multiformat Monitors

Unquestioned
performance.



Uncompromising quality.

this is not a rehearsal.

www.pro.sony-europe.com

SONY

Defining Multiformat Quality



SONY'S LEGENDARY LINE OF BROADCAST MONITORS now has a family of new additions. The BVM-D series digital monitors are optimised for a wide range of demanding applications. They are ideal for widescreen 625 monitoring as well as for high definition at both 50 and 60 Hz. These monitors also complement the emerging 24 progressive frame mastering infrastructure by directly displaying the 1080/24PsF format*. The BVM-D series monitors also support a wide range of other scanning formats, with no need for a scan converter. They are capable of displaying each input signal at its native frequency and resolution with an extremely high degree of colour accuracy. And as with all Sony professional monitors, they incorporate the patented, award-winning Trinitron® system to deliver uncompromising picture quality.

* The 1080/24PsF signal, consisting of 24 progressive frames per second, is displayed as a 48 Hz interlaced picture at the full 1920 x 1080 (2K x 1K) resolution.





Functionality

This new BVM monitor series can be used in a variety of applications.

Master monitors	BVM-D32E1WE/D24E1WE/D20F1E
Picture monitors	BVM-D14H1E/D14H5E/D9H1E/D9H5E
Field use	BVM-D9H1E/D9H5E

Multiformat

These monitors accept the wide variety of digital signals necessary to allow you the freedom to produce in whatever format you choose.

Sony Technology

To provide the highest possible picture quality, all BVM monitors are equipped with CRTs manufactured by Sony, using EBU standard phosphors*. A new flat surface, 16:9 aspect HR Trinitron CRT was developed exclusively for the BVM-D32E1WE and BVM-D24E1WE.

* P-22 phosphors are used in the BVM-D9H1E/D9H5E.

Only Sony can provide you with
a complete line-up of monitors
— from 32-inch master monitors to 9-inch picture
and field-use monitors — to support
your diverse application needs.

Continuing in the tradition of Sony's
broadcast and professional monitors,
these new BVM-D series monitors are
designed to work side by side with your
current BVM E, F and G series monitors,
in one completely integrated system.



Master Monitor

- 32, 24 and 20-inch monitors*
- Newly developed flat surface, 16:9 aspect HR Trinitron CRT for the 32 and 24-inch master monitors
- Resolution of 1000 TV lines (32 and 24-inch in 4:3/16:9 modes) and 900/700 TV lines (20-inch in 4:3/16:9 modes)



BVM-D24E1WE

Display unit with optional
BKM-10R and **BKM-34H** attached



Picture Monitor

- 14 and 9-inch monitors*
- Display unit (BVM-D14H1E/D9H1E) and stand-alone (BVM-D14H5E/D9H5E) monitors for greater flexibility in system integration
- Resolution of 800/600 TV lines (14-inch in 4:3/16:9 modes) and 450/340 TV lines (9-inch in 4:3/16:9 modes)



BVM-D14H5E

Stand-alone
monitor



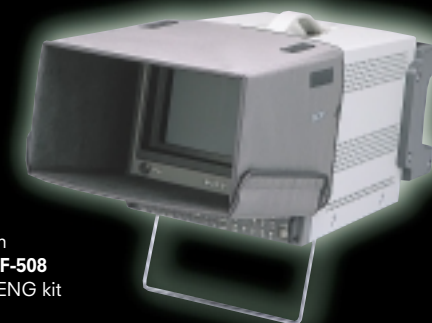
Field Use

- 9-inch monitors*
- Optional lithium-ion battery packs available for added convenience
- Optional Monitor ENG kit (hood and rear protector) available
- Audio capability, built-in speaker, and simple stand for added versatility in the field (BVM-D9H5E only)



BVM-D9H5E

Stand-alone
monitor with
optional **VF-508**
Monitor ENG kit



* 32, 24, 20, 14, and 9-inch refer to the CRT size. For viewable area, measured diagonally, please refer to the specifications.

BVM-D Series Monitor Features

Superb Picture Reproduction

- HR Trinitron provides high resolution pictures
- EBU standard phosphors*
- Sony-manufactured CRTs provide excellent colour uniformity and performance
- Beam current feedback for stable colour temperature

* P-22 phosphors are used in the BVM-D9H1E/D9H5E.

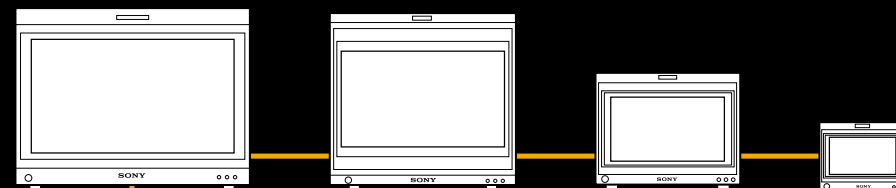
Auto Set-up Capabilities

- Built-in auto set-up system for chroma, phase, and white balance
- Precise colour temperature adjustment using external colour probes: Sony BKM-14L, Graseby SLS 9400, Minolta CA-100, Philips PM 5639, Thoma TF6
- Adjustable colour temperature (factory preset to D65)

System Integration

Only the Sony BVM-D series provides you with models ranging from 9 to 32-inches that can be controlled in one completely integrated, multi-control system. And, your current E, F and G series BVM monitors can also be controlled in the same system.

- Modular design with separate display and control units
- Parallel and RS-485 serial remote control capability
- Up to 32 monitors can be controlled with one control unit
- Optional rack mounting kits



Control Unit BKM-10R

Aspect Ratio

The BVM-D32E1WE and BVM-D24E1WE, with their 16:9 CRT, are capable of displaying both 16:9 and 4:3 formats. The other models are all equipped with 4:3 CRTs that are also capable of displaying the 16:9 formats. 16:9 and 4:3 aspect ratio masks are supplied with all monitors except the 32 and 24-inch model.

Multiformat Signal Support

All of these monitors accept signals with a frequency range of 15.625 kHz to 45 kHz, and each picture signal is directly scanned from the original signal using the point scan method to achieve high picture quality.

Acceptable Formats

System	Horizontal scanning frequency	Total lines per frame	Active lines per frame	Frame rate*1 (Hz)	Scanning format	Aspect	Standard
575/50I (PAL)	15.625	625	575	25	2:1 Interlace	16:9 / 4:3	ITU 601
480/60I (NTSC)	15.734	525	483	30	2:1 Interlace	16:9 / 4:3	ITU 601
575/50P	31.250	625	575	50	Progressive	16:9 / 4:3	—
480/60P	31.469	525	483	60	Progressive	16:9 / 4:3	SMPTE 293M
1080/24PsF*2	27.000	1125	1080	24	2:1 Interlace	16:9	—
1080/50I	28.125	1125	1080	25	2:1 Interlace	16:9	SMPTE 274M
1035/60I	33.750	1125	1035	30	2:1 Interlace	16:9	BTA S-001B
1080/60I	33.750	1125	1080	30	2:1 Interlace	16:9	SMPTE 274M / BTA S-001B
720/60P	45.000	750	720	60	Progressive	16:9	SMPTE 296M

*1 Each of the above frame rates is also compatible with 1/1.001.

*2 The 1080/24PsF signal, consisting of 24 progressive frames per second, is displayed as a 48 Hz interlaced picture at the full 1920 x 1080 ('2K x 1K') resolution.



Interchangeable 16:9 and 4:3 aspect ratio masks

32, 24 and 20-inch Monitor Features

- Flat surface, 16:9 aspect ratio HR Trinitron CRTs developed specifically for the BVM-D32E1WE and BVM-D24E1WE
- Optional BKM-12Y Memory Card for storage and recall of primary set-up data
- Safe area display, 4:3 area marker (line, translucent mat, full black mat)
- Data transfer between monitors using an optional BKM-12Y Memory Card or via an RS-485 link
- ISR (Interactive Status Reporting) for system diagnostics
- Built-in test signal generator for cross-hatch, 100% white signal, 20% gray signal, gray scale, and PLUGE





Flat surface, 16:9 aspect ratio HR Trinitron CRT

• Separate Control and Display Units



The 32, 24 and 20-inch monitors are designed as display units. However, an optional BKM-10R Control Unit can be easily attached to these monitors* with optional attachment kits.

*BKM-10R cannot be attached to the BVM-D32E1WE

BVM-D20F1E with optional **BKM-10R** and **BKM-32H** attached

• Decoder and Expansion Boards for 32, 24 and 20-inch Monitors

The BVM-D32E1WE, BVM-D24E1WE and BVM-D20F1E are equipped as standard with Analogue Component (Y/Pb/Pr, GBR) input/output connectors and four option slots in the rear panel of the monitor. Depending on the particular system requirements, the most appropriate boards can simply be inserted in the option slots in the rear panel of the monitor. A range of input decoder and expansion boards, also compatible with BVM E, F and G series monitors, is available to provide many different input configurations. Although each decoder board has a primary function, when two or more boards are installed at the same time, they combine to accept a much wider range of signal inputs and standards.



BVM-D24E1WE
with optional decoder and expansion boards

• • • On-screen Menus for Adjustment and

Input Configuration

Depending on the optional boards installed, the settings for the type and location of the input signals can be made from the Input Configuration menu.

Matrix Interchangeability

Depending on the input signal, one of three matrices (ITU 601, ITU 709, or SMPTE 240M) can be chosen from the Matrix menu.

Beam Landing Correction (BVM-D32E1WE/D24E1WE only)

The BVM-D32E1WE and BVM-D24E1WE are capable of correcting beam landing shift which may occur as a result of the terrestrial magnetic field. This correction can be made manually or automatically, with the use of the optional BKM-14L Auto Set-up Probe.

Digital Uniformity (BVM-D32E1WE/D24E1WE only)

White can be reproduced uniformly on every point of the screen, even in the peripheral area, through the digital uniformity circuit. This adjustment can be made manually or automatically, with the use of the optional BKM-14L Auto Set-up Probe.

Digital Convergence (BVM-D32E1WE only)

The BVM-D32E1WE is capable of adjusting the convergence at each point of the screen, even in the peripheral area, through the digital convergence circuit. Using the on-screen menu, adjustments can be made to meet any installation.

Operation

• • • • Input Decoder and Expansion Board Configurations

INPUT CONFIGURATION

CH01

FORMAT... YPBPR

SLOT NO SLO76

INPUT NO 1

YC SEP

SYNC MODE INT

SCREEN MODE 16:9-NORM

SAFE AREA DISPLAY OFF

MODE...

APERTURE OFF

VALUE 100

MATRIX

1080/60I ITU 709

1080/50I ITU 709

1080/48I ITU 709

1035/60I SMPTE 240M

720/60P ITU 709

575/50P ITU 601

575/50I ITU 601

480/60P ITU 601

480/60I ITU 601

MANUAL

DIRECTION EAST

FINE ADJUST

NS 100

TOP LEFT 100

TOP RIGHT 100

BOTTOM LEFT 100

BOTTOM RIGHT 100

RESET

WHITE UNIFORMITY (2/2)

1080/60I 16:9-UNDR

DIGITAL UNIFORMITY ADJ

MANUAL...

AUTO FULL POINTS...

ONE POINT...

ORIGINAL VALUE

1080/60I 16:9-NORM

SIGNAL EXT

CONV FINE ADJUST

1080/60I 16:9-NORM

ADJUST...

H CONV :CONTRAST KNOB

H & CONV :BRIGHT KNOB

V CONV :COLORS KNOB

V & CONV :PHASE KNOB

CURSOR POSITION :10KEY

TO CANCEL :MENU KEY

TO CONFIRM :ENTER KEY

Adaptor name		BKM-41HD	BKM-42HD	BKM-48X*1	BKM-20D	BKM-21D	BKM-22X	BKM-24N	BKM-25P	BKM-26M	BKM-27T	BKM-28X
Signal format		HD SDI Input Adaptor	HD SDI Input Adaptor	HD Analogue Input Expansion Adaptor	SDI 4:2:2 Decoder Adaptor	SDI Multi Decoder Adaptor	SDI Input Expansion Adaptor	NTSC Decoder Adaptor	PAL Decoder Adaptor	PAL-M Decoder Adaptor	Tri-Standard Decoder Adaptor	Analogue Input Expansion Adaptor
Serial Digital Input	Component 525/625											
	Composite NTSC											
	Composite PAL											
	575/50P											
	480/60P											
	1080/24PsF											
	1080/50I											
	1035/60I											
	1080/60I											
	720/60P											
Analogue Input	Composite NTSC											
	Composite PAL											
	Composite PAL-M											
	Composite SECAM											
	Y/Pb/Pr 525/625											
	GBR 525/625											
	Y/C NTSC											
	Y/C PAL											
	Y/C PAL-M											
	Y/Pb/Pr, GBR 575/50P											
	Y/Pb/Pr, GBR 480/60P											
	Y/Pb/Pr, GBR 1080/24PsF*2											
	Y/Pb/Pr, GBR 1080/50I											
	Y/Pb/Pr, GBR 1035/60I											
	Y/Pb/Pr, GBR 1080/60I											
	Y/Pb/Pr, GBR 720/60P											
Number of digital inputs		1	2		3	3	3					
Number of analogue inputs		1	1	6	3	3	3	6	6	6	6	6

*1 Equipped with floating/non-floating ground mode selector for hum reduction.
*2 The 1080/24PsF signal, consisting of 24 progressive frames per second, is displayed as a 48 Hz interlaced picture at the full 1920 x 1080 (2K x 1K) resolution.

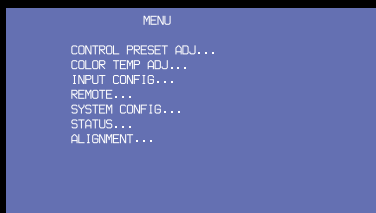
Signal can be reproduced with this adaptor
Signal can be reproduced when combined with an appropriate decoder

14 and 9-inch Monitor Features

- 4:3 area marker
- Conventional functions, H/V delay, Underscan, Blue only, Mono are available
- Equipped with three colour Tally (Red, Green, Amber: R + G)
- Mountable into a 19-inch EIA standard rack with optional mounting brackets
- Copy function enables INPUT CONFIG and SYSTEM CONFIG settings to be copied from other BVM-D14H/D9H monitors connected by serial remote
- Simplified menus for greater ease of use
- Audio capability and built-in speaker in the bottom of the monitor (BVM-D9H5E only)
- Equipped with simple stand (BVM-D9H5E only)
- Operate on three alternative power sources: AC power (supplied adaptor), external DC 12 V, optional Lithium-ion batteries BP-L60A/L90A (BVM-D9H1E/D9H5E only)



BVM-D9H5E
with AC adaptor (left) and optional
BP-L60A battery pack (right)



Simplified menus

The chart to the right shows the operation times of the 9-inch monitors when run on batteries. Times may vary depending on the picture, condition of the battery and temperature.

	Battery	Inserted Input Adaptor	
		Analogue Component BKM-129X	Full options (max) BKM-142HD + BKM-120D
BVM-D9H1E/ BVM-D9H5E	BP-L60A	Approx. 90 min.	Approx. 60 min.
	BP-L90A	Approx. 150 min.	Approx. 100 min.

Input Boards for 14 and 9-inch Monitors

A new series of four input boards has been developed specifically for the 14 and 9-inch BVM-D series monitors. With three option slots, these monitors are able to accept a wide variety of input signals.

BKM-142HD

HD SDI Input Adaptor

- 2 HD SDI signal inputs/1 monitor out
- Power consumption: 9 W
- Dimensions:
49.7 (W) x 161.4 (H) x 121.8 (D) mm
(6 ³/₈ x 4 ⁷/₈ inches)
- Mass: Approx. 730 g (1 lb 10 oz)
- * This board occupies 2 slots



BKM-120D

SDI 4:2:2 Input Adaptor

- 2 D1 SDI signal inputs/2 active outputs
- Power consumption: 4 W
- Dimensions:
24.7 (W) x 161.4 (H) x 121.8 (D) mm
(1 x 6 ³/₈ x 4 ⁷/₈ inches)
- Mass: Approx. 310 g (11 oz)



BKM-127W

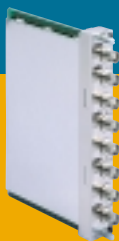
NTSC/PAL Input Adaptor

- 2 Analogue composite with loop-through BNC, Automatic 75 Ω termination/1 Y/C with loop-through Mini DIN 4-pin, Automatic 75 Ω termination
- Power consumption: 3 W
- Digital 3-lines Comb filter
- Dimensions:
24.7 (W) x 161.4 (H) x 121.8 (D) mm
(1 x 6 ³/₈ x 4 ⁷/₈ inches)
- Mass: Approx. 270 g (10 oz)





BVM-D14H1E
with optional input boards



BKM-129X

Analogue Component Input Adaptor
(supplied as standard with 14 and 9-inch monitors)

- 1 Analogue component (Y/Pb/Pr, GBR) with loop-through BNC, Automatic 75 Ω termination/1 EXT SYNC with loop-through BNC, Automatic 75 Ω termination
- Power consumption: 0.5 W
- Dimensions:
24.7 (W) x 161.4 (H) x 121.8 (D) mm
(1 x 6 $\frac{3}{8}$ x 4 $\frac{7}{8}$ inches)
- Mass: Approx. 250 g (9 oz)

Optional Accessories



BKM-10R
Central Control Unit



BKM-11R
Hand-held Control Unit



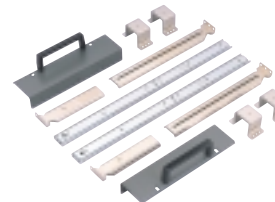
BKM-12Y
Memory Card



BKM-14L
Auto Set-up Probe



BKM-30E20
19-inch EIA Standard Rack Mount Kit
for 20-inch monitors



BKM-31E14
19-inch EIA Standard Rack Mount Kit
for 14-inch monitors



BKM-30E14
19-inch EIA Standard Rack Mount Kit
for 14-inch stand-alone monitors



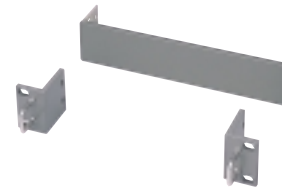
BKM-32H
Control Unit Attachment Kit
for BKM-10R with 20-inch monitor



BKM-34H
Control Unit Attachment Kit
for BKM-10R with 24-inch monitor



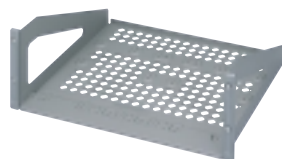
MB-509
Mounting Panel for EIA Standard
Rack (5U) for 9-inch stand-alone
monitors



MB-510
19-inch Rack Mount Kit
for BKM-10R



MB-519
Mounting Panel for EIA Standard Rack
(4U) for 9-inch display unit monitors



MB-520
19-inch Rack Mount Kit
for 9-inch monitors



VF-508
Monitor ENG Kit (Hood and Rear
Protector) for 9-inch monitors

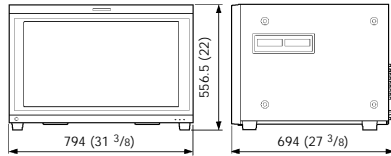
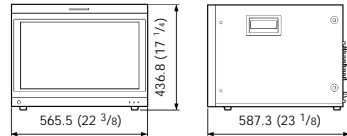
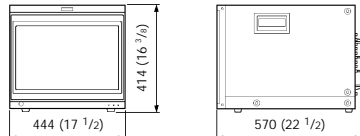


RCC-5G/10G/30G
9-pin Cable for RS-485/422
serial remote control



BP-L60A/L90A
Rechargeable Lithium-ion Battery
Packs for 9-inch monitors

Specifications

BVM-D32E1WE				BVM-D24E1WE				BVM-D20F1E								
General	Signal format			15.625 kHz to 45 kHz (For more details, please refer to the Acceptable Formats table.)												
	Type			Display unit												
	Power requirements			100 to 240 V AC ± 10%, 50/60 Hz												
	Power consumption (with options)			180 W (235 W max.)				155 W (205 W max.)				150 W (210 W max.)				
	Dimensions		mm	794 (W) × 556.5 (H) × 694 (D)				565.5 (W) × 436.8 (H) × 587.3 (D)				444 (W) × 414 (H) × 570 (D)				
	(including all protruding parts)		inches	31 3/8 × 22 × 27 3/8				22 3/8 × 17 1/4 × 23 1/8				17 1/2 × 16 3/8 × 22 1/2				
	Mass			approx. 94 kg (206 lb 13 oz)				approx. 51 kg (112 lb 3 oz)				approx. 38 kg (83 lb 10 oz)				
	CRT	CRT type		32-inch HR Trinitron (flat surface, 16:9 aspect)				24-inch HR Trinitron (flat surface, 16:9 aspect)				20-inch HR Trinitron				
		AG pitch		0.32-0.36 mm, 90° deflection, Ø 29.1 mm in-line gun				0.25 mm, 90° deflection, Ø 29.1 mm in-line gun				0.30 mm, 90° deflection, Ø 30.6 mm in-line gun				
		Visual screen (Viewable area, measured diagonally)	mm	4:3	491.3 (W) × 368.5 (H), (614.1) 655.2 (W) × 368.5 (H), (751.7)				361.6 (W) × 271.2 (H), (452) 482.1 (W) × 271.2 (H), (553.1)				386 (W) × 291 (H), (482) 386 (W) × 218 (H), (443)			
inches			4:3	19 3/8 × 14 5/8, (24 1/4) 25 7/8 × 14 5/8, (29 5/8)				14 1/4 × 10 3/4, (17 7/8) 19 × 10 3/4, (21 7/8)				15 1/4 × 11 1/2, (19) 15 1/4 × 8 5/8, (17 1/2)				
Phosphor			EBU													
Inputs/Outputs	Video			BNC × 3, with loop-through												
		GBR		1.0 Vp-p ±6 dB, positive												
		Y		1.0 Vp-p ±6 dB, high impedance												
		PB/PR		0.7 Vp-p ±6 dB, high impedance												
	Ext sync			BNC × 1, with loop-through												
		Composite		0.3 to 8.0 Vp-p, high impedance, tri-level bipolar sync												
	Remote	OPTION		RS-232C for BKM-11R Mini DIN 8-pin												
		CONTROL UNIT		RS-422 for BKM-10R D-sub 9-pin												
		REMOTE 1/Serial remote		RS-485 serial interface, D-sub 9-pin, with loop-through												
		REMOTE 2/Parallel remote 1		D-sub 9-pin × 1 (Short to ground)												
Parallel remote 2		Not Applicable														
ISR		D-sub 9-pin × 1														
Video signal performance	Differential gain (DG)		Within 5% for luminance from 0 to 70 cd/m²				Within 5% for luminance from 0 to 100 cd/m²									
	Differential phase (DP)		Within 5° for luminance from 0 to 70 cd/m²				Within 5° for luminance from 0 to 100 cd/m²									
	Frequency response			50 Hz to 30 MHz +1 dB/-3 dB												
	DC restoration			Back porch type, back porch level: within 1% of peak luminance, 10 to 90% APL												
Synchronisation	Retrace time		Horizontal		under 3.77 µsec											
			Vertical		under 650 µsec											
Raster and picture performance	Normal scan			5% over scan of the effective picture area												
	Under scan			3% under scan of the effective picture area												
	Linearity			Less than 1.0% within circle centred on the screen with a diameter equal to the vertical height, 2.0% at any other point*				Less than 0.5% within circle centred on the screen with a diameter equal to the vertical height, 1.0% at any other point*								
	Colour temperature			D65/D93/COL 1/COL 2 (User adjustable)												
	Convergence			Less than 0.5 mm within circle centred on the screen with a diameter equal to the vertical height, 0.8 mm at any other point				Less than 0.4 mm within circle centred on the screen with a diameter equal to the vertical height, 0.7 mm at any other point								
	Preset brightness			70 cd/m² (30 fL) (when a 1.0 Vp-p 100% white signal is input)				100 cd/m² (30 fL) (when a 1.0 Vp-p 100% white signal is input)								
	Stability of raster size			1.0% of picture height (at 70 cd/m² peak luminescence, 10 to 90% APL)				1% of picture height (at 100 cd/m² peak luminescence, 10 to 90% APL)								
	Scan delay	Horizontal		Approx. 3/8 line												
		Vertical		Approx. 1/2 field												
	Centre resolution			16:9 1000 TV lines, 4:3 1000 TV lines							16:9 700 TV lines, 4:3 900 TV lines					
Operating conditions	Operating temperature			0 to 35 °C (32 to 95 °F) / Optimum operating range 20 to 30 °C (68 to 86 °F)												
	Storage temperature			-10 to 40 °C (14 to 104 °F)												
	Humidity			0 to 90 % (no condensation)												
Others	Supplied accessories			AC cable, AC plug holder, Tally label, Operation manual, Fuse, 4:3 mask (BVM-D20F1E only)												
	Regulation compliance			EN 60950 (TUV GS), CE: EN 55103-1+EN 55103-2+EN 60950												
Dimensions	mm (inches)															

* 1080/60I and 1035/60I only

* 1080/60i and 1035/60i only

BVM-D14H1E

BVM-D14H5E

BVM-D9H1E

BVM-D9H5E

15.625 kHz to 45 kHz (For more details, please refer to the Acceptable Formats table.)

Display unit

Stand-alone monitor

Display unit

Stand-alone monitor

100 to 240 V AC \pm 10%, 50/60 Hz

100 W (115 W max.)

60 W (with option: 85 W max.)

346 (W) \times 280 (H) \times 519 (D)482 (W) \times 280 (H) \times 562 (D)217 (W) \times 174 (H) \times 364.5 (438)*¹ (D)218 (W) \times 217 (H) \times 379.5 (453)*¹ (D)13 $\frac{5}{8}$ \times 11 $\frac{1}{8}$ \times 20 $\frac{1}{2}$ 19 \times 11 $\frac{1}{8}$ \times 22 $\frac{1}{4}$ 8 $\frac{5}{8}$ \times 6 $\frac{7}{8}$ \times 14 $\frac{3}{4}$ (17 $\frac{1}{4}$)8 $\frac{5}{8}$ \times 8 $\frac{5}{8}$ \times 15 (17 $\frac{7}{8}$)

approx. 21 kg (46 lb 3 oz)

approx. 23 kg (50 lb 10 oz)

approx. 8.1 kg (17 lb 13 oz), 8.9 kg (19 lb 9 oz)*²approx. 9.3 kg (20 lb 7 oz), 10.1 kg (22 lb 4 oz)*²

14-inch HR Trinitron

9-inch HR Trinitron

0.25 mm, 90° deflection, \varnothing 29.4 mm in-line gun0.25 mm, 70° deflection, \varnothing 21.6 mm in-line gun267.5 (W) \times 200.6 (H), (331.6)155.4 (W) \times 115 (H), (190.7)267.5 (W) \times 150.5 (H), (306.9)155.4 (W) \times 87.4 (H), (178)10 $\frac{5}{8}$ \times 8, (13 $\frac{1}{8}$)6 $\frac{1}{8}$ \times 4 $\frac{5}{8}$, (7 $\frac{5}{8}$)10 $\frac{5}{8}$ \times 6, (12 $\frac{1}{8}$)6 $\frac{1}{8}$ \times 3 $\frac{1}{2}$, (7 $\frac{1}{8}$)

EBU

P-22

BNC \times 3, with loop-through, 75 Ω auto terminated1.0 Vp-p \pm 6 dB, positive1.0 Vp-p \pm 6 dB, high impedance0.7 Vp-p \pm 6 dB, high impedanceBNC \times 1, with loop-through, 75 Ω auto terminated

0.3 to 8.0 Vp-p, high impedance, tri-level bipolar sync

RS-232C for BKM-11R Mini DIN 8-pin

RS-422 for BKM-10R D-sub 9-pin

Not Applicable

D-sub 9-pin (RS-485/422 switchable)

Not Applicable

RS-485 serial interface, D-sub 9-pin, with loop-through

D-sub 9-pin \times 1 (Short to ground)

Modular connector 6-pin

Not Applicable

Within 5% for luminance from 0 to 100 cd/m²Within 5° for luminance from 0 to 100 cd/m²

48 Hz to 24 MHz +0 dB/-3 dB

48 Hz to 17 MHz +0 dB/-3 dB

Back porch type, back porch level: within 1% of peak luminance, 10 to 90% APL

under 3.77 μ secunder 650 μ sec

5% over scan of the effective picture area

3% under scan of the effective picture area

Less than 1.0% within circle centred on the screen with a diameter equal to the vertical height, 2.0% at any other point

Less than 2.0% within circle centred on the screen with a diameter equal to the vertical height

D65/D93/COL 1/COL 2 (User adjustable)

Less than 0.4 mm within circle centred on the screen with a diameter equal to the vertical height, 0.7 mm at any other point

120 cd/m² (35 fL)

(when a 1.0 Vp-p 100% white signal is input)

1% of picture height

(at 120 cd/m² peak luminescence, 10 to 90% APL)Approx. $\frac{1}{4}$ lineApprox. $\frac{1}{2}$ field

16:9 600 TV lines, 4:3 800 TV lines

16:9 340 TV lines, 4:3 450 TV lines

0 to 35 °C (32 to 95 °F) / Optimum operating range 20 to 30 °C (68 to 86 °F)

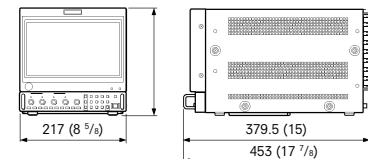
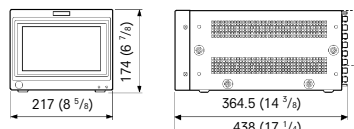
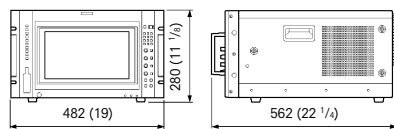
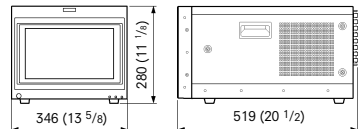
-10 to 40 °C (14 to 104 °F)

0 to 90 % (no condensation)

4:3 mask, AC cable, AC plug holder, Tally label, Operation manual

4:3 mask, AC cable, AC plug holder, AC adaptor, Tally label, Operation manual

EN 60950 (TÜV GS), CE: EN 55103-1+EN 55103-2+EN 60950

*¹ Depth with AC adaptor*² Mass with AC adaptor

Distributed by

© 2000 Sony Corporation. All rights reserved.
Reproduction in whole or in part without written
permission is prohibited. Features and specifica-
tions are subject to change without notice. All
non-metric weights and measures are approxi-
mate. Sony and Trinitron are registered trade-
marks of Sony Corporation.